

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 07-138561

(43)Date of publication of application : 30.05.1995

(51)Int.Cl.

C09K 11/06
H05B 33/14

(21)Application number : 05-288353

(71)Applicant : IDEMITSU KOSAN CO LTD

(22)Date of filing : 17.11.1993

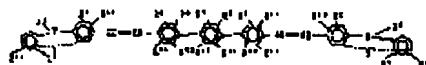
(72)Inventor : AZUMA HISAHIRO
HOSOKAWA CHISHIO
KUSUMOTO TADASHI

(54) ORGANIC ELECTROLUMINESCENT ELEMENT

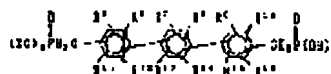
(57)Abstract:

PURPOSE: To obtain the element containing a compound having excellent hole transport properties, being resistant to crystallization even when made into an element and having good heat stability, and being excellent in film thinness by using a styryl compound of a specified structure.

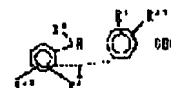
CONSTITUTION: A styryl compound of a terphenylene derivative, represented by formula I (wherein R¹ to R²⁰ are each H, halogen, 1-6C alkyl, alkoxy, 6-18C aryloxy, phenyl, amino, substituted amino or hydroxyl, provided that any two adjoining members of them may be combined with each other to form a five- or six-membered ring; Z¹ and Z² are each H, 1-6C alkyl, 6-20C aryl, 7-20C aralkyl or a bond to the adjacent benzen ring, and dotted lines 1 and 2 represent that the related groups may be combined with each other to form a heterocyclic structure) is used for the luminous layer, hole injection and transport layer, etc., of an organic electroluminescent element. A compound of formula I can be obtained, for example, by condensing a phosphonic ester of formula II with an aldehyde compound of formula III or IV in the presence of a base.



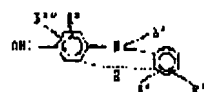
I



II



III



IV

LEGAL STATUS

[Date of request for examination] 03.08.2000

[Date of sending the examiner's decision of rejection] 15.04.2003

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]